PCT/EP2004/051651

### PATENT COOPERATION TREATY

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REC'D 24 MAY 2005

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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference   FOR FURTHER ACTION   See Form PCTAPEA416	264-204-WO FOR FURTHER						
PCT/EP2004/051651   29.07.2004   31.07.2003   31.07.2003   International Patent Classification (IPC) or national classification and IPC   A61K31/46, A61P25/00, C07D451/02   Applicant   NEUROSEARCH A/S et al.	International application No.	ACTION	See Form PCT/IPEA/416				
Applicant NEUROSEARCH AS et al.  1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.  2. This REPORT consists of a total of 5 sheets, including this cover sheet.  3. This report is also accompanied by ANNEXES, comprising:  a.   sent to the applicant and to the International Bureau) a total of sheets, as follows:    sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).    sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.  b.   (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).  4. This report contains indications relating to the following items:    Box No. I   Basis of the opinion   Box No. II   Priority     Box No. II   Lack of unity of invention     Box No. V   Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement     Box No. VI   Certain documents cited     Box No. VI   Certain defects in the international application		ite (day/month/year)					
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Tel. +49 89 2399 - 0 Tx: 523656 epmu d	□ Box No. III Non-establishment of opinion with reg □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Article 35 applicability; citations and explanation □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international ap □ Box No. VIII Certain observations on the internation  Date of submission of the demand  19.03.2005  Name and mailing address of the international preliminary examining authority: □ European Patent Office	(2) with regard to novel as supporting such state plication and application  Date of completion of to 23.05.2005  Authorized Officer	ty, inventive step or industrial ement his report				
Fax: +49 89 2399 - 4465 Telephone No. +49 89 2399-7823	□ Box No. III Non-establishment of opinion with reg □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Article 35 applicability; citations and explanation □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international ap □ Box No. VIII Certain observations on the internation □ Date of submission of the demand  19.03.2005  Name and mailing address of the international preliminary examining authority: □ European Patent Office □ D-80298 Munich □ Tel. +49 89 2399 - 0 Tx: 523656 epmu d	(2) with regard to novel as supporting such state plication and application  Date of completion of to 23.05.2005	ty, inventive step or industrial ement his report				

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/051651

_	Box No. I Basis of th	e report			
1	. With regard to the lange	ith regard to the <b>language</b> , this report is based on the international application in the language in which it was ed, unless otherwise indicated under this item.			
	☐ This report is based which is the langua☐ international sea☐ publication of the☐ international pre	e 12 4)			
2	nave been fairlisting to	ents* of the international application, the receiving Office in response to an " and are not annexed to this report):	this report is based on (replacement sheets vanimum invitation under Article 14 are referred to in the	vhich his	
	Description, Pages				
	1-12	as originally filed	•		
	Claims, Numbers				
	1-12	tter of 19.03.2005			
	☐ a sequence listing a	nd/or any related table(s) - see Suppl	lemental Box Relating to Sequence Listing		
3.		ve resulted in the cancellation of:			
	☐ the description, p☐ the claims, Nos.	ages			
	$\Box$ the drawings, she	ets/figs	•		
	the sequence list	ng (specify):			
	any table(s) relati	ed to sequence listing (specify):	•		
1.	nad not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
	☐ the description, pa	ages .			
	☐ the claims, Nos.☐ the drawings, she	ets/fins			
	the sequence listi	ng (specify):			
	☐ any table(s) relate	d to sequence listing (specify):			
	* If item 4 applie	s, some or all of these she	eets may be marked "superseded."		

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/051651

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-12

No:

Claims

Inventive step (IS)

Yes: Claims

1-12

No: Claims

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims 12?

2. Citations and explanations (Rule 70.7):

see separate sheet

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/051651

1) Reference is made to the following document:

D1: WO 97/30997 A (NEUROSEARCH AS; SCHEEL KRUEGER JOERGEN (DK); MOLDT PETER (DK); WAETJE) 28 August 1997 (1997-08-28)

2) The present application relates to (1R,2R,3S,5S)-2-methoxymethyl-3-(3,4-dichlorophenyl)-8-azabicyclo[3.2.1]octane tartrate salts and their use as monoamine neurotransmitter reuptake inhibitors.

#### 3) Re Item V

#### 3.1 Novelty (Art. 33(2) PCT)

None of the cited documents discloses the particular compound (1R,2R,3S,5S)-2-methoxymethyl-3-(3,4-dichlorophenyl)-8-azabicyclo[3.2.1]octane tartrate. The claimed subject-matter is therefore regarded as novel.

#### 3.2 Inventive Step (Art. 33(3) PCT)

**D1** is considered to be the closest state of the art. This document relates (cf. abstract and pg. 1, par. 1) to the preparation of particular tropane derivatives and their use as monoamine neurotransmitter re-uptake inhibitors in the treatment of disorders such as Parkinson's disease, depression, obsessive compulsive disorders, panic disorders, dementia, etc. For the preparation of the medicinal compositions, **D1** suggests (cf. pg. 7, par. 1) as pharmaceutically acceptable salts a list of acid addition salts comprising **tartrate**. It is also mentioned (cf. pg. 8, par. 6), that the resolution of racemic mixtures may be carried out by fractional crystallization of D- or **L-tartrates**, mandelates, or camphorsulphonates. Example 15 of **D1** discloses the preparation of (1R,2R,3S,5S)-2-methoxymethyl-3-(3,4-dichlorophenyl)-8-azabicyclo[3.2.1]octane and its **citrate** salt.

The subject-matter of the application differs from **D1** in that the compound involved is a <u>tartrate</u> and not to a citrate. The Applicant has shown by means of comparative examples (filed on 19.03.2005) that the tartrate of the invention shows much better properties as regards hygroscopicity than its homologous citrate salt. The problem to be solved by the present

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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application may thus be regarded as providing <u>less hygroscopic</u> salts of (1R,2R,3S,5S)-2-methoxymethyl-3-(3,4-dichlorophenyl)-8-azabicyclo[3.2.1]octane.

Even though **D1** mentions (see paragraphs indicated above) tartrates among the suitable pharmaceutical salts, this document is silent as to the hygroscopic properties of the resulting substances. Thus, there is no motivation in **D1** for the skilled person to particularly select tartrates among other pharmaceutically acceptable salts. As this selection is accompanied by an unexpected effect (drastically low hygroscopic character) the claimed subject-matter involves an inventive step.

#### 3.3 Industrial applicability (Art. 33(4) PCT)

Is acknowledged for claims 1-11.

For the assessment of the present Claim 12 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States and the patentability can also be dependent upon the formulation of the claims.